



June 27, 2016

Smita Sumbaly Weston Solutions, Inc 1090 King Georges Post Road Edison, NJ 08837

RE: Project: 365A

Pace Project No.: 30186684

Dear Smita Sumbaly:

Enclosed are the analytical results for sample(s) received by the laboratory on June 16, 2016. The results relate only to the samples included in this report. Results reported herein conform to the most current TNI standards and the laboratory's Quality Assurance Manual, where applicable, unless otherwise noted in the body of the report.

If you have any questions concerning this report, please feel free to contact me.

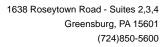
Sincerely,

Carin Ferris carin.ferris@pacelabs.com Project Manager

Enclosures

cc: Ben Nwosu, Weston Solutions, Inc.







CERTIFICATIONS

Project: 365A
Pace Project No.: 30186684

Pennsylvania Certification IDs

1638 Roseytown Rd Suites 2,3&4, Greensburg, PA 15601

L-A-B DOD-ELAP Accreditation #: L2417

Alabama Certification #: 41590 Arizona Certification #: AZ0734

Arkansas Certification

California Certification #: 04222CA

Colorado Certification

Connecticut Certification #: PH-0694

Delaware Certification

Florida/TNI Certification #: E87683 Georgia Certification #: C040

Guam Certification Hawaii Certification Idaho Certification Illinois Certification Indiana Certification Iowa Certification #: 391

Kansas/TNI Certification #: E-10358 Kentucky Certification #: 90133

Louisiana DHH/TNI Certification #: LA140008 Louisiana DEQ/TNI Certification #: 4086

Maine Certification #: PA00091 Maryland Certification #: 308

Massachusetts Certification #: M-PA1457

Michigan/PADEP Certification Missouri Certification #: 235 Montana Certification #: Cert 0082
Nebraska Certification #: NE-05-29-14
Nevada Certification #: PA014572015-1
New Hampshire/TNI Certification #: 2976
New Jersey/TNI Certification #: PA 051
New Mexico Certification #: PA01457
New York/TNI Certification #: 10888
North Carolina Certification #: 42706
North Dakota Certification #: R-190
Oregon/TNI Certification #: PA200002
Pennsylvania/TNI Certification #: 65-00282
Puerto Rico Certification #: PA01457

Rhode Island Certification #: 65-00282 South Dakota Certification

Tennessee Certification #: TN2867
Texas/TNI Certification #: T104704188-14-8
Utah/TNI Certification #: PA014572015-5
USDA Soil Permit #: P330-14-00213
Vermont Dept. of Health: ID# VT-0282
Virgin Island/PADEP Certification
Virginia/VELAP Certification #: 460198
Washington Certification #: C868

West Virginia DEP Certification #: 143
West Virginia DHHR Certification #: 9964C

Wisconsin Certification

Wyoming Certification #: 8TMS-L

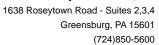


SAMPLE SUMMARY

Project: 365A
Pace Project No.: 30186684

Lab ID	Sample ID	Matrix	Date Collected	Date Received
30186684001	N002-CC003-01	Solid	06/14/16 11:45	06/16/16 09:45
30186684002	N002-CC006-01	Solid	06/14/16 11:00	06/16/16 09:45
30186684003	N002-CC006-02	Solid	06/14/16 11:00	06/16/16 09:45
30186684004	N002-CC007-01	Solid	06/14/16 13:00	06/16/16 09:45
30186684005	N002-CC011-01	Solid	06/14/16 14:00	06/16/16 09:45
30186684006	N002-CC013-01	Solid	06/14/16 14:45	06/16/16 09:45
30186684007	N002-CC016-01	Solid	06/14/16 15:30	06/16/16 09:45
30186684008	RB-N-160615	Water	06/14/16 16:30	06/16/16 09:45



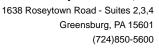




SAMPLE ANALYTE COUNT

Project: 365A
Pace Project No.: 30186684

Lab ID	Sample ID	Method	Analysts	Analytes Reported
30186684001	N002-CC003-01	EPA 901.1	MAH	1
30186684002	N002-CC006-01	EPA 901.1	MAH	1
30186684003	N002-CC006-02	EPA 901.1	MAH	1
30186684004	N002-CC007-01	EPA 901.1	MAH	1
30186684005	N002-CC011-01	EPA 901.1	MAH	1
30186684006	N002-CC013-01	EPA 901.1	MAH	1
30186684007	N002-CC016-01	EPA 901.1	MAH	1
30186684008	RB-N-160615	HSL-300	LAL	7





PROJECT NARRATIVE

Project: 365A
Pace Project No.: 30186684

Method: EPA 901.1

Description: 901.1 Gamma Spec **Client:** Weston Solutions, Inc. (NJ)

Date: June 27, 2016

General Information:

7 samples were analyzed for EPA 901.1. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

Hold Time:

The samples were analyzed within the method required hold times with any exceptions noted below.

Method Blank:

All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

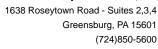
Laboratory Control Spike:

All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:

All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Additional Comments:





PROJECT NARRATIVE

Project: 365A
Pace Project No.: 30186684

Method: HSL-300

Description: HSL300(AS) Actinides **Client:** Weston Solutions, Inc. (NJ)

Date: June 27, 2016

General Information:

1 sample was analyzed for HSL-300. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

Hold Time:

The samples were analyzed within the method required hold times with any exceptions noted below.

Method Blank:

All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:

All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:

All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Additional Comments:

Analyte Comments:

QC Batch: RADC/30028

N2: The lab does not hold TNI accreditation for this parameter.

- BLANK (Lab ID: 1096884)
 - Thorium-228
 - Thorium-230
 - Thorium-232
 - U-233/234
 - Uranium-235
 - Uranium-238
 - U-235/236
- RB-N-160615 (Lab ID: 30186684008)
 - Thorium-228
 - Thorium-230
 - Thorium-232
 - U-233/234
 - Uranium-235
 - Uranium-238
 - U-235/236

This data package has been reviewed for quality and completeness and is approved for release.



ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: 365A						
Pace Project No.: 30186684 Sample: N002-CC003-01 PWS:	Lab ID: 301866840 Site ID:	01 Collected: 06/14/16 11:45 Sample Type:	Received:	06/16/16 09:45	Matrix: Solid	
Results reported on a "dry-we						
Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
Radium-226		.903 ± 1.648 (1.605) :NA T:NA	pCi/g	06/24/16 15:27	7 13982-63-3	
Sample: N002-CC006-01 PWS:	Lab ID: 301866840 Site ID:	02 Collected: 06/14/16 11:00 Sample Type:	Received:	06/16/16 09:45	Matrix: Solid	
Results reported on a "dry-we	eight" basis			4		
Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
Radium-226		.293 ± 1.984 (2.533) :NA T:NA	pCi/g	06/24/16 15:44	13982-63-3	
Sample: N002-CC006-02 PWS:	Lab ID: 301866840 Site ID:	03 Collected: 06/14/16 11:00 Sample Type:	Received:	06/16/16 09:45	Matrix: Solid	
Results reported on a "dry-we	eight" basis	10				
Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
Radium-226		.612 ± 1.624 (1.873) :NA T:NA	pCi/g	06/24/16 15:47	7 13982-63-3	
Sample: N002-CC007-01 PWS:	Lab ID: 301866840 Site ID:	04 Collected: 06/14/16 13:00 Sample Type:	Received:	06/16/16 09:45	Matrix: Solid	
Results reported on a "dry-we	A 3	cample type.				
Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
Radium-226		.482 ± 1.369 (1.895) :NA T:NA	pCi/g	06/24/16 16:00	13982-63-3	
Sample: N002-CC011-01 PWS:	Lab ID: 301866840 Site ID:	O5 Collected: 06/14/16 14:00 Sample Type:	Received:	06/16/16 09:45	Matrix: Solid	
Results reported on a "dry-we	•					
Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
Radium-226		.088 ± 1.668 (2.063) :NA T:NA	pCi/g	06/24/16 16:03	3 13982-63-3	
Sample: N002-CC013-01 PWS:	Lab ID: 301866840 Site ID:	06 Collected: 06/14/16 14:45 Sample Type:	Received:	06/16/16 09:45	Matrix: Solid	
Results reported on a "dry-we	eight" basis					
Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
Radium-226		.722 ± 1.055 (1.243) :NA T:NA	pCi/g	06/24/16 16:16	13982-63-3	



ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: 365A Pace Project No.: 30186684

Sample: N002-CC016-01 Lab ID: 30186684007 Collected: 06/14/16 15:30 Received: 06/16/16 09:45 Matrix: Solid

PWS: Site ID: Sample Type:

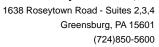
Results reported on a "dry-weight" basis

 Parameters
 Method
 Act ± Unc (MDC) Carr Trac
 Units
 Analyzed
 CAS No.
 Qual

 Radium-226
 EPA 901.1
 0.310 ± 1.917 (2.468)
 pCi/g
 06/24/16 16:19 13982-63-3
 13982-63-3

 C:NA T:NA
 C:NA T:NA</td

Sample: RB-N-160615 Lab ID: 30186684008 Collected: 06/14/16 16:30 Received: 06/16/16 09:45 Matrix: Water PWS: Site ID: Sample Type: Method Act ± Unc (MDC) Carr Trac **Parameters** Units Analyzed CAS No. Qual HSL-300 0.056 ± 0.077 (0.129) Thorium-228 pCi/L 06/24/16 20:41 14274-82-9 N2 C:NA T:67% HSL-300 0.000 ± 0.037 (0.082) Thorium-230 pCi/L 06/24/16 20:41 14269-63-7 N2 C:NA T:67% HSL-300 -0.015 ± 0.035 (0.082) Thorium-232 pCi/L 06/24/16 20:41 7440-29-1 N2 C:NA T:67% 0.009 ± 0.036 (0.071) U-233/234 HSL-300 pCi/L 06/25/16 17:10 N2 C:NA T:94% $0.009 \pm 0.032 \quad (0.052)$ HSL-300 Uranium-235 pCi/L 06/25/16 17:10 15117-96-1 N2 C:NA T:94% U-235/236 HSL-300 $0.009 \pm 0.032 \quad (0.052)$ N2 pCi/L 06/25/16 17:10 C:NA T:94% HSL-300 $0.038 \pm 0.029 \quad (0.015)$ Uranium-238 pCi/L 06/25/16 17:10 N2 C:NA T:94%





QUALITY CONTROL - RADIOCHEMISTRY

Project: 365A
Pace Project No.: 30186684

QC Batch: RADC/30072 Analysis Method: EPA 901.1

QC Batch Method: EPA 901.1 Analysis Description: 901.1 Gamma Spec

Associated Lab Samples: 30186684001, 30186684002, 30186684003, 30186684004, 30186684005, 30186684006, 30186684007

METHOD BLANK: 1097118 Matrix: Solid

Associated Lab Samples: 30186684001, 30186684002, 30186684003, 30186684004, 30186684005, 30186684006, 30186684007

 Parameter
 Act ± Unc (MDC) Carr Trac
 Units
 Analyzed
 Qualifiers

 Radium-226
 0.497 ± 0.998 (1.457) C:NA T:NA
 pCi/g
 06/23/16 11:26

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.



QUALITY CONTROL - RADIOCHEMISTRY

Project: 365A
Pace Project No.: 30186684

QC Batch: RADC/30028 Analysis Method: HSL-300

QC Batch Method: HSL-300 Analysis Description: HSL300(AS) Actinides

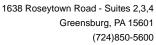
Associated Lab Samples: 30186684008

METHOD BLANK: 1096884 Matrix: Water

Associated Lab Samples: 30186684008

Parameter	Act ± Unc (MDC) Carr Trac	Units	Analyzed	Qualifiers
Thorium-228	0.046 ± 0.072 (0.124) C:NA T:76%	pCi/L	06/24/16 20:41	N2
Thorium-230	-0.020 ± 0.039 (0.093) C:NA T:76%	pCi/L	06/24/16 20:41	N2
Thorium-232	0.000 ± 0.030 (0.048) C:NA T:76%	pCi/L	06/24/16 20:41	N2
U-233/234	-0.041 ± 0.058 (0.122) C:NA T:97%	pCi/L	06/25/16 17:10	N2
U-235/236	0.020 ± 0.031 (0.018) C:NA T:97%	pCi/L	06/25/16 17:10	N2
Uranium-235	0.020 ± 0.031 (0.018) C:NA T:97%	pCi/L	06/25/16 17:10	N2
Uranium-238	0.028 ± 0.031 (0.048) C:NA T:97%	pCi/L	06/25/16 17:10	N2

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.





QUALIFIERS

Project: 365A
Pace Project No.: 30186684

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to dilution of the sample aliquot.

ND - Not Detected at or above adjusted reporting limit.

J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.

MDL - Adjusted Method Detection Limit.

PQL - Practical Quantitation Limit.

RL - Reporting Limit.

S - Surrogate

1,2-Diphenylhydrazine decomposes to and cannot be separated from Azobenzene using Method 8270. The result for each analyte is a combined concentration.

Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

U - Indicates the compound was analyzed for, but not detected.

N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.

Act - Activity

Unc - Uncertainty: SDWA = 1.96 sigma count uncertainty, all other matrices = Expanded Uncertainty (95% confidence interval). Gamma Spec = Expanded Uncertainty (95.4% Confidence Interval)

(MDC) - Minimum Detectable Concentration

Trac - Tracer Recovery (%)

Carr - Carrier Recovery (%)

Pace Analytical is TNI accredited. Contact your Pace PM for the current list of accredited analytes.

TNI - The NELAC Institute.

ANALYTE QUALIFIERS

Date: 06/27/2016 03:00 PM

N2 The lab does not hold TNI accreditation for this parameter.